

AMENDMENTS TO THE CLAIMS:

Please cancel Claims 20, 22, 23, 26, 28, and 29 without prejudice to or disclaimer of the subject matter recited therein.

Please amend Claim 19, 21, 24, 25, 27, 30, and 31, as follows:

I- 18. (Cancelled)

19. (Currently Amended) A video information processing apparatus configured to convert interlaced video information into progressive video information, comprising:

a pixel information storing unit for storing inputted pixel information on reference pixels in each of a plurality of fields;

a reference pixel motion information generating unit for generating motion information on each reference pixel which indicates whether a reference pixel is a moving image or a still image at least based on difference between the pixel information on two reference pixels at the same position in different fields;

a reference pixel motion information storing unit for storing the motion information on each reference pixel generated by the reference pixel motion information generating unit for a plurality of fields; and

an interpolation pixel motion determining unit for determining whether motion information on an interpolation pixel is a moving image or a still image based on an intrafield interpolation pixel motion information generating unit for generating first motion information based on the motion information on a reference pixel adjacent to an interpolation pixel in a field of interest, and an interfield interpolation pixel motion information generating unit for generating second motion information based on the motion information on a reference pixel in a field previous to the field of interest and the motion information on a reference pixel in a next

field following the field of interest, the reference pixels in the previous field and next field being at the same position as the interpolation pixel in the field of interest; ; and

an interpolation pixel motion determining unit for determining whether motion information on the interpolation pixel is a moving image or a still image based on the first motion information generated by the intrafield interpolation pixel motion information generating unit and the second motion information generated by the interfield interpolation pixel motion information generating unit.

20. (Cancelled)

21. (Currently Amended) A video information processing apparatus according to claim 20 19, wherein the interpolation pixel motion determining unit is adapted to determine the motion information on the interpolation pixel in the field of interest as a moving image when the motion information on the reference pixel adjacent to the interpolation pixel in the field of interest indicates a moving image, or when both of the motion information on the reference pixel in the field previous to the field of interest and the motion information on the reference pixel in the next field indicate either the first motion information or the second motion information indicates a moving image, and otherwise, to determine the motion information on the interpolation pixel in the field of interest as a still image.

22 - 23. (Cancelled)

24. (Currently Amended) A video information processing apparatus according to claim 19, further comprising:

an interpolation pixel information generating unit for generating pixel information on the interpolation pixel based on the pixel information on a reference pixel in the previous field

previous to the field of interest when the motion information on the interpolation pixel in the field of interest is determined as a still image by the interpolation pixel motion determining unit, and for generating pixel information on the interpolation pixel based on the pixel information on reference pixels in the field of interest when the motion information on the interpolation pixel in the field of interest is determined as a moving image by the interpolation pixel motion determining unit.

25. (Currently Amended) A video information processing method for converting interlaced video information into progressive video information, comprising:

a reference pixel motion information generating step of generating motion information on each reference pixel which indicates whether a reference pixel is a moving image or a still image at least based on difference between the pixel information on two reference pixels at the same position in different fields;

a reference pixel motion information storing step of storing the motion information on each reference pixel generated in the reference pixel motion information generating step for a plurality of fields; and

an interpolation pixel motion determining step of determining whether motion information on an interpolation pixel is a moving image or a still image based on an intrafield interpolation pixel motion information generating step of generating first motion information based on the motion information on a reference pixel adjacent to an interpolation pixel in a field of interest, and; an intrafield interpolation pixel motion information generating step of generating second motion information based on the motion information on a reference pixel in a previous field previous to the field of interest and the motion information on a reference pixel in a next field following the field of interest, the reference pixels in the previous field and next field being at the same position as the interpolation pixel in the field of interest, ; and

an interpolation pixel motion determining step of determining whether motion information on the interpolation pixel is a moving image or a still image based on the first motion information generated in the intrafield interpolation pixel motion information generating step and the second motion information generated in the interfield interpolation pixel motion information generating step;

26. (Cancelled)

27. (Currently Amended) A video information processing method according to claim 26, wherein the interpolation pixel motion determining step comprises the steps of:

determining the motion information on the interpolation pixel in the field of interest as a moving image when the motion information on the reference pixel adjacent to the interpolation pixel in the field of interest indicates a moving image, or when both of the motion information on the reference pixel in the field previous to the field of interest and the motion information on the reference pixel in the next field indicate either the first motion information or the second motion information indicates a moving image, and otherwise, determining the motion information on the interpolation pixel in the field of interest as a still image.

28 - 29. (Cancelled)

30. (Currently Amended) A video information processing method according to claim 25, further comprising:

an interpolation pixel information generating step of generating pixel information on the interpolation pixel based on the pixel information on a reference pixel in the previous field previous to the field of interest when the motion information on the interpolation pixel in the field of interest is determined as a still image in the interpolation pixel motion determining step,

and of generating pixel information on the interpolation pixel based on the pixel information on reference pixels in the field of interest when the motion information on the interpolation pixel in the field of interest is determined as a moving image in the interpolation pixel motion determining step.

31. (Currently Amended) An apparatus comprising:

pixel information storing means for storing inputted pixel information on reference pixels in each of a plurality of fields;

reference pixel motion information generating means for generating motion information on each reference pixel which indicates whether a references pixel is a moving image or a still image at least based on difference between the pixel information on two reference pixels at the same position in different fields;

reference pixel motion information storing means for storing the motion information on each reference pixel generated by the reference pixel motion information generating means for a plurality of fields;

interpolation pixel motion determining means for determining whether motion information on the interpolation pixel is a moving image or a still image based on intrafield interpolation pixel motion information generating means for generating first motion information based on the motion information on a reference pixel adjacent to an interpolation pixel in a field of interest, and ; interfield interpolation pixel motion information generating means for generating second motion information based on the motion information on a reference pixel in a field previous to the field of interest and the motion information on a reference pixel in a next field following the field of interest, the reference pixels in the previous field and next field being at the same position as the interpolation pixel in the field of interest ; and

interpolation pixel motion determining means for determining whether motion information on the interpolation pixel is a moving image or a still image based on the first

motion information generated by the intrafield interpolation pixel motion information generating means and the second motion information generated by the interfield interpolation pixel motion information generating means.